



#245 CPA/2814
REQ 11/20/01
OCT 30 2001
TECHNOLOGY CENTER 2000

**CONTINUED PROSECUTION APPLICATION (CPA)
REQUEST TRANSMITTAL**
(Only for Continuation or Divisional applications under 37 CFR 1.53(d))

Address to: Assistant Commissioner for Patents Box CPA Washington, DC 20231	Attorney Docket No.	8543-004-27 CIP
	First Inventor	Marvin LIAO
	Group Art Unit	2814
	Examiner	T. Quach

This is a request for a ☐ continuation or ☐ divisional application under 37 CFR 1.53(d) (continued prosecution application (CPA)) of prior application number 08/825,360 filed on March 28, 1997 entitled INTERCONNECT STRUCTURE FOR USE IN AN INTEGRATED CIRCUIT

- ☐ Enter the amendment(s) filed on _____ under 37 CFR 1.116 in the prior nonprovisional application.
- ☒ A Preliminary Amendment is enclosed.
- ☐ This application is filed by fewer than all the inventors named in the prior application, 37 CFR 1.53 (d)(4)
 - ☐ DELETE the following inventor(s) named in the prior nonprovisional application:
 - ☐ The inventor(s) to be deleted are set forth on a separate sheet attached hereto.
- ☐ A new power of attorney or authorization of agent (PTO/SB/81) is enclosed.
- ☐ An Information Disclosure Statement (IDS) is enclosed, along with:
 - ☐ Form PTO-1449
 - ☐ Copies of Cited Documents
- ☐ Applicant(s) claim(s) small entity status.
- ☒ A Fee Transmittal is enclosed.
- ☒ A check in the amount of \$2,916.00
- ☒ The Commissioner is hereby authorized to charge any underpayment for the papers being filed herewith and for which no check is enclosed or credit any overpayment to Deposit Account No. 50-1442.
☒ If these papers are not considered timely filed by the Patent and Trademark Office, then a request is hereby made under 37 CFR 1.136 for the necessary extension of time in the parent case. Any fees required for such an extension of time may be charged to Deposit Account No. 50-1442.
- ☐ Applicant(s) request(s) suspension of action under 37 CFR 1.103(b) for a period of _____ months (not to exceed 3 months) and the fee under 37 CFR 1.17(i) is enclosed).
- ☐ New Attorney Docket Number, if desired _____
- ☒ Other: Request for Extension of Time

CORRESPONDENCE ADDRESS
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Name	Jerold I. Schneider	Registration No.	24,765
Signature	<i>Jerold I. Schneider</i>	Date	October 26, 2001
Name		Telephone	202-861-3900
		Registration No.	

08/26/2001 BLUANG1 00000021 08025350
740.00 DP
216.00 DP
1560.00 DP



FEE TRANSMITTAL

Docket No. 8543-004-27 CIP
 Serial No. 08/825,360
 Filing Date March 28, 1997
 Inventor(s) Marvin LIAO et al.
 Group Art Unit 2814
 Examiner T. Quach

TOTAL AMOUNT OF PAYMENT \$2,916.00

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1. ☐ Applicant claims small entity status.

☒ Charge any **UNDERPAYMENT** or credit any **OVERPAYMENT** in the indicated fees to Deposit Account No. 50-1442.

☐ Charge the indicated fees to Deposit Account No. 50-1442.

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity Fee Description

2. ☒ Check enclosed.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description		139	130	139	130	Non-English specification	
Fee Code	Fee (\$)	Fee Code	Fee (\$)		Fee Paid	147	2520	147	2520	Ex parte reexam. fee	
101	740	201	370	Utility filing fee	\$740.00	115	110	215	55	1-mo. ext. of time	
106	330	206	165	Design filing fee		116	400	216	200	2-mo. ext. of time	
107	510	207	255	Plant filing fee		117	920	217	460	3-mo. ext. of time	
108	740	208	370	Reissue filing fee		118	1440	218	720	4-mo. ext. of time	
114	160	214	80	Provisional filing fee		128	1960	228	980	5-mo. ext. of time	\$1,960.00

SUBTOTAL (1) \$740.00

2. EXTRA CLAIM FEES

tot. claims	32	-	20*	=	12	x	\$18	=	216	121	280	221	140	Request for Oral Hearing		
ind. claims	2	-	3*	=	0	x	\$84	=	0	142	1280	242	640	Utility/Reissue Issue Fee		
<input type="checkbox"/>	Multiple Dependent Claims						\$280	=		143	460	243	230	Design Issue Fee		
Large Entity		Small Entity		Fee Description						144	620	244	310	Plant Issue Fee		
Fee Code	Fee (\$)	Fee Code	Fee (\$)							122	130	122	130	Petitions to the Commissioner		
103	18	203	9	Claims in excess of 20						126	180	126	180	IDS Submission		
102	84	202	42	Independent claims in excess of 3						581	40	581	40	Assignment		
104	280	204	140	Multiple dependent claim, if not paid						179	740	279	370	For Filing RCE		
109	84	209	42	*Reissue independent claims over original patent						169	900	169	900	Expedited Design		
110	18	210	9	*Reissue claims in excess of 20 and over original patent						OTHER (indicate below):						

SUBTOTAL (2) \$216.00

* or number previously paid, if greater; For Reissues, see above

SUBTOTAL (3) \$1,960.00

Name	Jerry I. Schneider	Registration No.	24,765
Signature		Date	October 26, 2001
Name		Telephone	202-861-3900
		Registration No.	

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Marvin LIAO et al.

ART UNIT: 2814

SERIAL NO.: 08/825,360

EXAMINER: T. Quach

FILING DATE: March 28, 1997

FOR: INTERCONNECT STRUCTURE FOR USE IN AN INTEGRATED CIRCUIT

#26/D
11/20/01
Charles

PRELIMINARY AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Prior to examination on the merits, please amend the above-referenced application as follows.

IN THE CLAIMS

Please amend claims 21 and 48 as follows:

sub E1
21. (Twice Amended) A method for forming a structure in an integrated circuit, said structure extending from a conductive surface through a channel having inner walls extending above said conductive surface, said method including the steps of:

(a) depositing a layer of a refractory metal on said conductive surface and said inner walls of said channel;

(b) forming a layer of a metal nitride on said layer of said refractory metal, wherein said layer of said metal nitride has a thickness extending from said layer of said refractory metal of less than 130 Å;

(c) said metal nitride layer being of greater thickness than said layer of refractory material; and